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US EPA RECORDS CENTER REGION 5



491556

MONSANTO INDUSTRIAL CHEMICALS CO.

Sauget, Illinois 62201

Phone: (818) 271-5835

March 30, 1978

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IEPA-DAPC-SPFLD

Mr. M. P. Schmierbach, P.E.  
Manager, Permit Section  
Division of Air Pollution Control  
Illinois Environmental Protection Agency  
2200 Churchill Road  
Springfield, Illinois 62706

TRADE SECRET

References: Application No. A I801005  
I.D. No. 163121AAC 3246  
Construction of: Industrial Waste Incinerator  
Location: Route 3, Sauget, Illinois

Letter from M. P. Schmierbach and  
A. M. Telford to J. W. Molloy dated 3/9/78

Letter from J. W. Molloy to M. P. Schmierbach  
dated 3/22/78

Dear Mr. Schmierbach:

In response to your request for a listing of the chemical content of all wastes to be incinerated, two copies of Exhibit 3 are attached herewith as supplemental information to the referenced construction permit application. You may note that waste numbers 3, 10, 12, and 14 each have the same composition. It is intentional that these wastes are separately identified due to design considerations that will allow for different modes of operation and hence these wastes will be incinerated with some variations. For example, retention time and/or temperature in the rotary kiln may vary or the waste may be burned in the secondary chamber. In any event the maximum emissions from each identical exit reported in the construction permit application have been correctly communicated to the best of our knowledge at this time.

If you have any additional questions please feel free to contact me.

Very truly yours,

J. W. Molloy  
Plant Manager

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**EXHIBIT 3**  
**PRIMARY BURNER**  
**AVERAGE COMPOSITION (% BY WEIGHT)**

	<u>CARBON</u>	<u>HYDROGEN</u>	<u>OXYGEN</u>	<u>NITROGEN</u>	<u>WATER</u>	<u>CHLORINE</u>	<u>SULFUR</u>	<u>PHOSPHORUS</u>	<u>ASH</u>	<u>INER</u>
Case A*	Waste No. 1 (Chlorinated Nitro compounds)	51.730	3.200	20.300	10.140	0.060	14.310	0.190	0.0	0.070 0.0
	Waste No. 2 (Chlorinated Hydrocarbons - high water content)	54.630	5.200	17.320	0.390	5.180	11.560	0.150	1.59	3.98 0.0
	Waste No. 3 (Chlorinated Hydrocarbons - low water content)	56.250	6.580	11.150	0.400	1.480	23.810	0.200	0.04	0.09 0.0
	Waste No. 4 (Hydrocarbons - low chlorine)	79.370	10.060	0.870	6.130	0.620	0.250	1.230	0.57	0.90 0.0
	Waste No. 5 (Pilot - fuel oil)	84.700	15.300	0.0	0.0	0.0	0.0	0.200	0.0	0.0 0.0
	Waste No. 6 (Chlorinated Hydrocarbons - solids)	51.320	4.230	13.790	2.110	0.0	8.150	4.710	3.56	12.13 0.0
	Waste No. 7 (Hydrocarbons - low chlorine content - solids)	50.690	3.630	22.600	0.440	4.760	1.360	2.530	2.62	11.37 0.0
	Waste No. 8 (Laboratory Wastes - solids)	10.990	0.720	5.460	1.470	0.0	3.810	0.0	0.0	2.550 75.00
Case B**	Waste No. 9 (Contaminated Water)	0.0	0.0	0.0	0.0	100.000	0.0	0.0	0.0	0.0 0.0
	Waste No. 10 (Chlorinated Hydrocarbons - low water)	56.250	6.580	11.150	0.400	1.480	23.810	0.200	0.04	0.09 0.0
	Waste No. 11 (PCB Mixtures)	48.85	2.82	1.31	0.0	0.0	34.0	5.66	0.0	7.3 0.0

\* NOTE: Case A is for the burning of wastes excluding polychlorinated biphenyls (PCBs)

\*\* NOTE: Case B is for the burning of only polychlorinated biphenyls (PCBs)

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EXHIBIT 3 (continued)  
SECONDARY BURNER  
AVERAGE COMPOSITION (% BY WEIGHT)

		<u>CARBON</u>	<u>HYDROGEN</u>	<u>OXYGEN</u>	<u>NITROGEN</u>	<u>WATER</u>	<u>CHLORINE</u>	<u>SULFUR</u>	<u>PHOSPHORUS</u>	<u>ASH</u>	<u>IN</u>
Case A *	Waste No. 12 (Chlorinated Hydrocarbons - low water)	56.250	6.580	11.150	0.400	1.480	23.810	0.200	0.04	0.09	0.
	Waste No. 13 (Pilot - fuel oil)	84.700	15.300	0.0	0.0	0.0	0.0	0.200	0.0	0.0	0.
	Waste No. 11 (PCB Mixture)	56.250	6.580	11.150	0.400	1.480	23.810	0.200	0.04	0.09	0.

\* NOTE: Case A is for the burning of wastes excluding polychlorinated biphenyls (PCBs)  
 \*\* NOTE: Case B is for the burning of only polychlorinated biphenyls (PCBs)

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